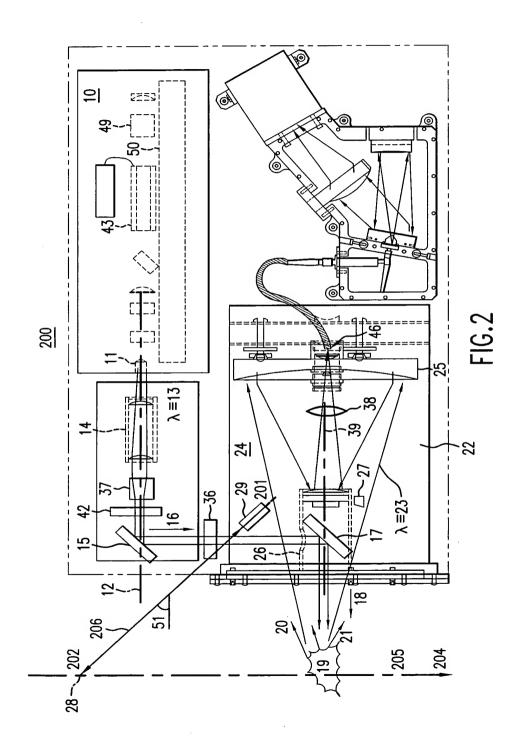


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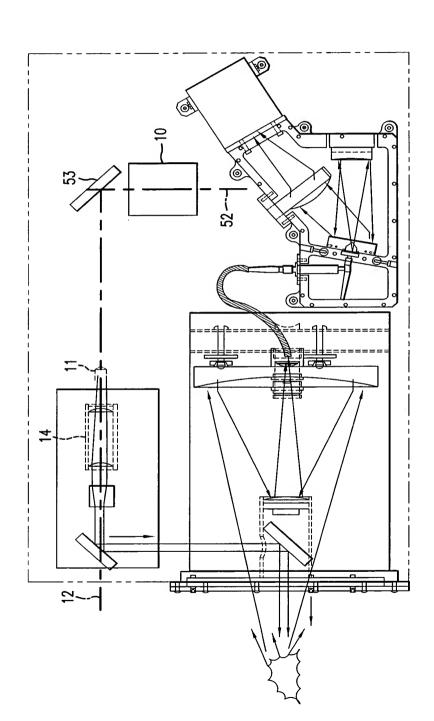


FIG. 3

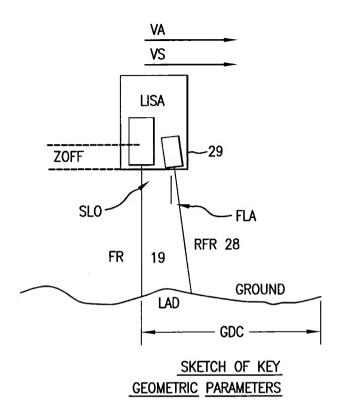
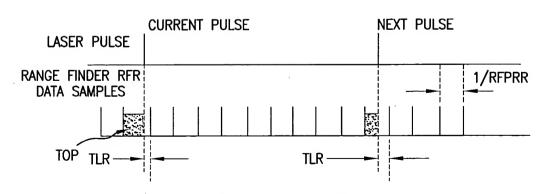


FIG.4



DEFINING THE TIME INTERVAL TLR

FIG.5

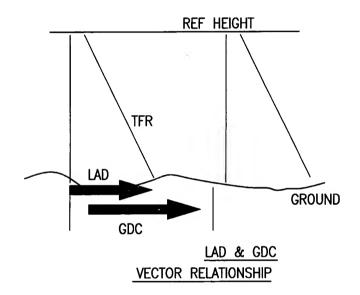


FIG.6

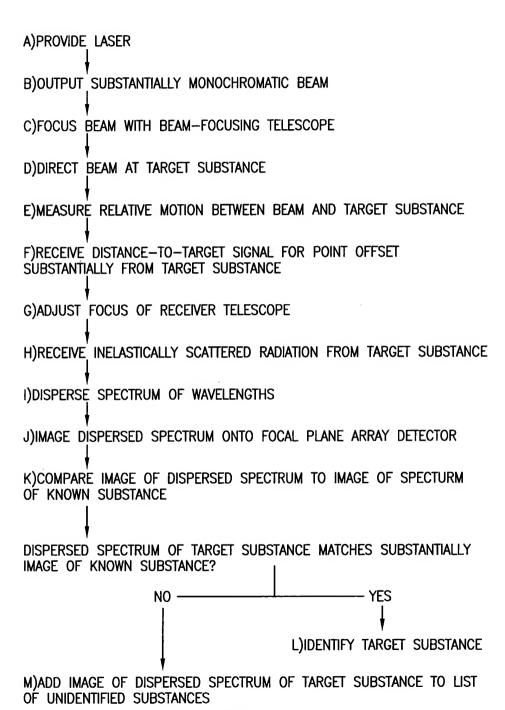


FIG.7

AA)DISENGAGE ON—BOARD CYLINDER

AB)RELEASE ON—BOARD CYLINDER RETAINER

AC)REMOVE ON—BOARD CYLINDER

AD)INSTALL NEW ON—BOARD CYLINDER

FIG.8

AAA)INDICATE LOW GAS BOTTLE PRESSURE

AAB)LOCK ON—BOARD VALVES SHUT

AA)DISENGAGE ON—BOARD CYLINDER

FIG.9

ADA)PURGE GAS LINES BY RELEASING GAS FROM CYLINDER

ADB)VENT GAS THROUGH ON—BOARD GAS FILTER

ADC)REPLENISHING GAS OF LASER

FIG. 10

B)OUTPUT SUBSTANTIALLY MONOCHROMATIC BEAM
BA)SETTING PULSE RATE OF LASER
FIG. 11

G)ADJUST FOCUS OF RECEIVER TELESCOPE GA)RECEIVE RANGE-TO-TARGET DATA SAMPLE GB)TAG RANGE-TO-TARGET DATA SAMPLE WITH TIME SEQUENCE GC)RECEIVE RELATIVE MOTION DATA SAMPLE GD)CALCULATE RATE OF CHANGE OF RELATIVE MOTION GE)CORRECT RANGE-TO-TARGET DATA SAMPLE FOR RELATIVE MOTION GF)CORRECT RANGE-TO-TARGET DATA SAMPLE FOR RATE OF CHANGE OF RELATIVE MOTION GG)CORRECT RANGE-TO-TARGET DATA SAMPLE FOR LASER PULSE RATE GH)CORRECT RANG-TO-TARGET DATA SAMPLE FOR RANGE-FINDER PULSE RATE GI)CORRECT RANGE-TO-TARGET DATA SAMPLE FOR RANGE-FINDER POSITION RÉLATIVE TO RECEIVER TELESCOPE LINE-OF-SIGHT GJ)CORRECT TAGGED RANGE-TO-TARGET DATA SAMPLE FOR LASER AND RANGEFINDER WAVEFORM DE-SYNCHRONIZATION TIME OFFSET GK)TRANSFORM SET OF CO-ORDINATES OF CORRECTED TAGGED RANGE-FINDER SAMPLE TO RECEIVER TELESCOPE LINE-OF-SIGHT GL)CONVERT RANGE-TO-TARGET SAMPLE TO EQUIVALENT RECEIVER TELESCOPE

FIG.12

SECONDARY REFLECTOR POSITION